

KSTAR HPM3300E-RT series

Working mode : 3 in 3 out on line RT series UPS

Power range: 10kVA ~ 50kVA



■ Fully digital control

- Digital control process (DSP) makes the system more stable and reliable

■ Parallel redundancy function

- Parallel redundancy design, up to 6 units available, makes the configuration more flexible
- Support sharing batteries for the UPS in parallel

■ Power saving

- High input power factor, it can be up to 0.99
- Three level inverter topology, the efficiency can be up to 95.5%

■ Safty and reliable protection

- Power up self-diagnosis function
- Output overload, output short circuit, inverter over temperature, battery under voltage warning and battery overcharge protection
- Static electronic bypass switches
- Cold (DC) start function
- Fan intelligent speed regulation design, prolong fan life, high efficiency and energy saving

■ Flexible battery configuration

- Batteries number of each group can be selected from 30 pcs to 50 pcs

■ LBS function

- Load Bus synchronization can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system

■ Intelligent Charging Method

- The series UPS adopts advanced three-stage charging method—
stage-1: high current constant current charging to guarantee to charge back to 90%;
stage-2: Constant Voltage, in order to vitalize battery and make sure batteries are fully charged
stage-3: floating mode.
With these three stage charging method, it extends the life of the batteries and guarantees fast charging.

■ Strong load capacity

- Output power factor is 1.0, UPS can support 100% unbalance load

■ Flexible Installation

- Supports 19-inch rack mounting and tower mounting

■ Intelligent Monitoring Function

- RS232 / RS485 communication interface
- USB interface
- Parallel interface
- SNMP card(optional)
- Relay card (optional)
- Battery temperature compensation adapter (optional)

■ EPO Function

- The series UPS may be completely shut off when the EPO is pressed. REPO function (Remote EPO) is also available in this series UPS.

Technical Specification

| MODEL | HPM3310E-RT | HPM3315E-RT | HPM3320E-RT | HPM3325E-RT | HPM3330E-RT | HPM3340E-RT | HPM3350E-RT |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Capacity (VA/Watts) | 10kVA 10kW | 15kVA 15kW | 20kVA 20kW | 25kVA 25kW | 30kVA 30kW | 40kVA 40kW | 50kVA 50kW |

INPUT

| | |
|----------------------------|--|
| Nominal voltage | 380/400/415Vac, (3Ph+N+PE) |
| Operating voltage range | 138~485Vac |
| Operating frequency range | 40Hz~70Hz |
| Power factor | ≥0.99 |
| Harmonic distortion (THDi) | ≤3% (100%non-linear load) |
| Bypass voltage range | 220Vac Max.voltage: +25%(optional +10%,+15%,+20%) 230Vac Max.voltage: +20%(optional +10%,+15%) 240Vac Max.voltage: +15%(optional +10%) Min. voltage: -45% (optional -20%,-30%) Frequency synchronize tracing range: ± 10% |
| Generator input | Support |

OUTPUT

| | |
|---------------------------|--|
| Output voltage | 380/400/415Vac (3Ph+N+PE) |
| Voltage regulation | ± 1% |
| Power factor | 1.0 |
| Output frequency | 1.Line Mode: synchronize with input; when input frequency > ± 10% (± 1%/ ± 2%/ ± 4%/ ± 5% optional) 2.Battery Mode:50/60*(1 ± 0.02%)Hz |
| Crest factor | 3:1 |
| Harmonic distortion (THD) | ≤2% with linear load ≤4% with non linear load |
| Efficiency | 95.5% |

BATTERY

| | | |
|--|--|------------------|
| Battery voltage | Optional Voltage: ± 180V/ ± 192V/ ± 204V/ ± 216V/ ± 228V/ ± 240/ ± 252/ ± 264/ ± 276/ ± 288/ ± 300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional) 360Vdc~600Vdc (30~50 pcs, 30 pcs define, 36~50 pcs no power derating; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8;) | |
| Charge Current(A) (charge current can be set according to battery capacity installed) | Max. current 18A | Max. current 20A |

SYSTEM FEATURES

| | | |
|---------------|--|---|
| Transfer time | Utility to Battery : 0ms; Utility to bypass: 0ms | |
| Overload | Load≤ 110%: last 60min, ≤ 125%: last 10min, ≤ 150%: last 1min | |
| Alarm | overload, utility abnormal, UPS fault, battery low, etc. | |
| Backfeed | Support | |
| Protection | short circuit, overload, over temperature, battery low, fan fault alarm. | |
| Communication | 10~30kVA | USB, RS232, RS485, Parallel port, Dry contact port, REPO port, Backfeed port, Intelligent slot, SNMP card (optional) |
| | 40~50kVA | USB, RS232, RS485, Parallel port, REPO port, LBS port, Backfeed port, Intelligent slot, SNMP card (optional), Relay card (optional) |

ENVIRONMENTAL

| | | | |
|-----------------------|--|-------|-------|
| Operating temperature | 0℃ ~ 40℃ | | |
| Storage temperature | -25℃ ~ 55℃ (no battery) | | |
| Humidity range | 0 ~ 95% (non condensing) | | |
| Altitude | < 1500m.When>1500m,lower the rated power for use | | |
| Noise level | <55dB | <56dB | <58dB |

PHYSICAL

| | | | | |
|--------------------------|---------------------|---------|----------------------|------------|
| Dimension D × W × H (mm) | 670 × 440 × 130(3U) | | 800 × 440 × 175 (4U) | |
| Net weight (kg) | 25 | 27 ~ 28 | | 45 48 |

STANDARDS

| | | | |
|--------|---|--|--|
| Safety | IEC/EN62040-1,IEC/EN60950-1 | | |
| EMC | IEC/EN62040-3,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8 | | |